

The Bombyces and Sphinges of the Ogražden mountain in S.W. Bulgaria (Lepidoptera)

Julius GANEV

Samenvatting. De Bombyces en Sphinges van de Ogražden-berg in Zuidwest-Bulgarije (Lepidoptera)

Tot nog toe waren er geen gegevens gepubliceerd over de Bombyces en Sphinges van de Ogražden-berg. Een inventarisatie in de jaren 1983-1986 leverde onderstaande lijst van 105 soorten op; dit is meer dan de helft van het aantal soorten uit deze groep dat in Bulgarije voorkomt.

Résumé. Les Bombycides et Spingides du Mont Ogražden, du sud-ouest de la Bulgarie (Lepidoptera)

Aucun ouvrage traitant des Bombycides et Spingides du Mont Ogražden n'avait été publié jusqu'ici. Un inventaire effectué de 1983 à 1986 révélait la présence des 105 espèces dont la liste suit. Ceci représente plus de la moitié des espèces bulgares de ce groupe.

Ganev, J. : str. Rakovski 84, BG-1000 Sofia, Bulgaria.

The general notes about the geographic situation, geology, climate and vegetation of the Ogražden mountain were published in GANEV (1986). There are hitherto no published records of Sphinges and Bombyces from this locality. The investigation was carried out during the period 1983-1986 and covers all parts of the mountain. The Lepidoptera were collected from March till December. 105 species of Sphinges and Bombyces were observed, this being more than half of the species from this group known to occur in Bulgaria (GANEV, 1984, 1985). The species belong to the following families :

Hepialidae	2	Thyatiridae	7
Cossidae	5	Sphingidae	13
Zygaenidae	3	Notodontidae	19
Limacodidae	1	Thaumetopoeidae	2
Lasiocampidae	8	Lymantriidae	5
Lemoniidae	1	Arctiidae	20
Saturniidae	3	Syntomidae	3
Drepanidae	3	Nolidae	9

The species can be ascribed to the following zoogeographical elements :

Eurosiberian	53	(50.5 %)
Mediterranean	36	(34.3 %)
Palaeartic	11	(10.5 %)
Holarctic	2	(1.9 %)
Cosmopolitan	3	(2.8 %)
Total	105	(100.0 %)

Many species like *Cerura vinula* L., *Notodonta dromedarius* L., *Lemonia balcanica* HERRICH-SCHÄFFER, *Syntomis phegea* L., *Watsonella cultraria* FABRICIUS, *Calliteara fascelina* L. and *Pentophera morio* L. that occur on other mountains in Bulgaria are absent from Ogražden mountain, this probably being caused by the dry climate of the mountain. Two zones can be

traced on the mountain : the oak-zone up to 1100 m, which is divided into 3 sections and the beech-zone up to 1639 m, which is divided into two sections this because some species have a very local vertical distribution. Nomenclature is according to FREINA & WITT (1987).

Name	up to 300 m	300- 700	700- 1100	1100- 1300	1300- 1639	Flight period
Hepialidae						
<i>Triodia amasinus dobrogensis</i>						
CARADJA	x					IX-X
<i>Triodia sylvina</i> LINNAEUS	x	x				IX
Cossidae						
<i>Phragmataecia castaneae</i> Hb.	x					V
<i>Zeuzera pyrina</i> LINNAEUS		x				VII
<i>Cossus cossus</i> LINNAEUS	x		x			VII
<i>Dyspessa ulula</i> BORKHAUSEN	x	x				IV-V
<i>Dyspessa salicicola</i> EVERSMAHN	x	x				VI-VII
Zygaenidae						
<i>Adscita statice</i> LINNAEUS	x	x				V
<i>Zygaena filipendulae</i> LINNAEUS					x	VII-VIII
<i>Zygaena contaminei</i> BOISDUVAL	x	x				V
Limacodidae						
<i>Apoda limacodes</i> HUFNAGEL		x	x			V-VII
Lasiocampidae						
<i>Malacosoma neustrium</i> L.	x	x				VI
<i>Eriogaster lanestris</i> LINNAEUS	x					III
<i>Lasiocampa trifolii</i> D. & S.		x	x			VIII-IX
<i>Macrothylacia rubi</i> LINNAEUS		x				V-VII
<i>Phyllodesma tremulifolia</i> Hb.					x	VII
<i>Gastropacha quercifolia</i> L.	x	x	x			VI-IX
<i>Odonestis pruni</i> LINNAEUS	x	x				VI-VIII
<i>Dendrolimus pini</i> LINNAEUS				x	x	VII
Lemoniidae						
<i>Lemonia taraxaci</i> D. & S.		x				IX-X
Saturniidae						
<i>Saturnia pyri</i> D. & S.	x	x				V
<i>Saturnia pavonia</i> LINNAEUS	x	x	x			III-IV
<i>Agria tau</i> LINNAEUS		x	x	x	x	V
Drepanidae						
<i>Watsonalla binaria</i> HUFNAGEL	x	x	x			V-VIII
<i>Drepana falcatoria</i> LINNAEUS		x				VIII
<i>Cilix glaucata</i> SCOPOLI	x	x	x	x	x	III-IX
Thyatiridae						
<i>Thyatira batis</i> LINNAEUS	x					IX
<i>Habrosyne pyritoides</i> HUFN.	x	x	x	x	x	V-VIII
<i>Tethea ocularis</i> LINNAEUS		x				V
<i>Tethea</i> or GOEZE					x	VII
<i>Cymatophorima diluta</i> D. & S.		x				IX
<i>Polyplocia ridens</i> FABRICIUS	x	x				III-IV
<i>Asphalia ruficollis</i> D. & S.	x	x				IV
Sphingidae						
<i>Agrius convolvuli</i> LINNAEUS		x				VIII-IX
<i>Acherontia atropos</i> LINNAEUS	x					VIII-IX

Name	up to 300 m	300- 700	700- 1100	1100- 1300	1300- 1639	Flight period
<i>Hyloicus pinastri</i> LINNAEUS		x	x	x	x	V-VII
<i>Marumba quercus</i> D. & S.	x	x				V-VII
<i>Smerinthus ocellatus</i> LINNAEUS	x	x				VI
<i>Mimas tiliae</i> LINNAEUS	x	x	x	x	x	V-VIII
<i>Laotloe populi</i> LINNAEUS	x	x				V-IX
<i>Macroglossum stellatarum</i> L.	x	x	x	x	x	III-X
<i>Proserpinus proserpinus</i> PALLAS	x	x				V-VI
<i>Hyles euphorbiae</i> LINNAEUS	x	x	x	x	x	V-IX
<i>Hyles livornica</i> ESPEY	x	x				IV-V
<i>Deilephila elpenor</i> LINNAEUS	x	x				V-VI
<i>Deilephila porcellus</i> LINNAEUS	x	x	x	x		V-VII
Notodontidae						
<i>Phalera bucephala</i> LINNAEUS			x	x	x	VII
<i>Phalera bucephaloides</i> OCHSENHEIMER		x				VIII
<i>Furcula furcula forficula</i> FISCHER DE WALDHEIM	x	x			x	VII-IX
<i>Furcula bifida</i> BRAHM					x	VII
<i>Stauropus fagi</i> LINNAEUS		x	x	x	x	IV-VII
<i>Peridea korbi herculana</i> POPESCU-GORJ & CAP.		x				IV-V
<i>Notodonta ziczac</i> LINNAEUS	x	x	x			VII
<i>Notodonta tritopa</i> D. & S.		x	x			IV-V
<i>Drymonia dodonaea</i> D. & S.		x				V
<i>Drymonia ruficornis</i> HUFNAGEL		x				IV
<i>Drymonia querna</i> D. & S.		x	x			V
<i>Dicranura ulmi</i> D. & S.	x	x	x			IV-V
<i>Harpyia milhauseri</i> FABRICIUS	x	x	x			IV-VIII
<i>Pheosia tremula</i> CLERCK			x			VIII
<i>Pterostoma palpinum</i> CLERCK	x	x	x			IV-VII
<i>Ptilodon capucina</i> LINNAEUS				x	x	VI-VII
<i>Spatalia argentina</i> D. & S.	x	x	x			V-VIII
<i>Clostera curtula</i> LINNAEUS		x				IV-VII
<i>Clostera anastomosis</i> LINNAEUS	x					IX
Thaumetopoeidae						
<i>Thaumetopoea processionea</i> L.	x	x				VIII-IX
<i>Traumatocampa pityocampa</i> DENIS & SCHIFF.	x	x	x	x		VII-VIII
Lymantriidae						
<i>Calliteara pudibunda</i> LINNAEUS		x				V
<i>Orgyia antiqua</i> LINNAEUS	x					VIII
<i>Lymantria dispar</i> LINNAEUS	x	x	x	x	x	VI-VIII
<i>Euproctis chrysorrhoea</i> L.	x	x	x	x	x	VI-VII
<i>Sphragaeidus similis</i> FUESSLY	x	x				IX
Arctiidae						
<i>Miltochrista miniata</i> FORSTER	x	x				IX
<i>Pelosia muscerda</i> HUFNAGEL	x	x				VI-IX
<i>Lithosia quadra</i> LINNAEUS	x	x	x	x	x	VII-IX
<i>Eilema lurideola</i> ZINCKEN	x	x	x	x	x	VI-VIII
<i>Eilema complana</i> LINNAEUS		x	x	x	x	VII-VIII
<i>Eilema pseudocomplana</i> DANIEL	x	x				VII-IX
<i>Eilema morosina</i> H.-S.		x	x			VII-VIII

Name	up to 300 m	300- 700	700- 1100	1100- 1300	13/0- 1639	Flight period
<i>Eilema caniola</i> HÜBNER	x	x	x			V-X
<i>Eilema palliatella</i> SCOPOLI		x				VII
<i>Eilema pygmaeola pallifrons</i> ZELLER	x	x				VI-IX
<i>Eilema sororcula</i> HUFNAGEL	x	x				V-VII
<i>Coscinia striata</i> LINNAEUS	x	x				V-VI
<i>Ocnogyna parasita lianea</i> WITT	x					III
<i>Phragmatobia fuliginosa</i> L.	x	x	x			V-IX
<i>Spilosoma luteum</i> HUFNAGEL	x	x	x	x	x	V-VII
<i>Spilosoma lubricipedium</i> L.	x	x	x			IV-VIII
<i>Spilosoma urticae</i> ESPEr	x					V
<i>Arctia villica</i> LINNAEUS	x	x				IV-VI
<i>Callimorpha dominula bithynica</i> STAUDINGER					x	VII
<i>Euplagia quadripunctaria</i> PODA		x				VIII-IX
Syntomidae						
<i>Syntomis kruegeri marjana</i> STAUDER	x	x				VII
<i>Dysauxes ancilla</i> LINNAEUS		x	x	x	x	VII-IX
<i>Dysauxes famula</i> FREYER	x	x	x			VI-IX
Nolidae						
<i>Meganola togatalis</i> HÜBNER	x	x				VI-IX
<i>Meganola sirigula</i> D. & S.		x				VIII
<i>Meganola gigantula</i> STGR.		x				V
<i>Meganola albula</i> D. & S.	x	x				IX
<i>Nola cucullatella</i> LINNAEUS		x				VIII
<i>Nola cicutricalis</i> TREITSCHKE		x	x			IV
<i>Nola aerugula</i> HÜBNER	x					VI
<i>Nola subchlamydula</i> STGR.	x					VI
<i>Nola chlamitulalis</i> HÜBNER	x	x	x			VII-IX

Bibliography

- Freina, J.J. de & Witt, T.J., 1987. *Die Bombyces und Sphinges der Westpalaearktis (Insecta, Lepidoptera), Band 1*. Ed. Forschung und Wissenschaft Verlag GmbH, München, p. 1-708, T. 1-46.
- Ganev, J., 1984. Catalogue of the Bulgarian Bombyces and Sphinges (Lepidoptera). - *Entomofauna* 5 : 391-467.
- Ganev, J., 1985. Studies on Heterocera from Bulgaria II (Lepidoptera). - *Phegea* 13 : 85-91.
- Ganev, J., 1986. The Butterflies of the Ograzden mountain in South-West Bulgaria (Lepidoptera, Rhopalocera and Grypocera). - *Phegea* 14 : 89-96.